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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P00452PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/FI 2002/000785	International filing date (day/month/year) 07-10-2002	Priority date (day/month/year) ---
International Patent Classification (IPC) or national classification and IPC G06F3/033		
Applicant MYORIGO OY ET AL		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 14-08-2003	Date of completion of this report 05-01-2004
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Form PCT/IPEA/409 (cover sheet) (January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2002/000785

Box No. I **Basis of the report**

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 8 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 9 - 11 received by this Authority on 22-11-2004

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 5 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2002/000785

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-21</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-21</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-21</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 6411275
D2: WO 0178055
D3: EP 0805389
D4: GB 2330506

D1 relates to a handheld display device where only a part of a larger image is displayed on the screen. The device has a fixed cursor and a couple of control buttons. The image part shown can be changed by moving the device in space. In stead of moving the cursor over the image part to an intended spot on the image part this can be moved under the cursor to get the cursor to point at the same spot.

D2-D4 are only cited to show the state of the art.

The method according to claims 1-7 and the electronic device according to claim 8-14 differ from D1 in that the cursor moves on the display to reflect the location of the displayed part of the virtual view in proportion to the whole virtual view. In D1 the device is tilted to move the virtual view so as to view a special part of it on the display. Therefore, the invention according to claims 1-14 is new and considered to involve an inventive step.

Claims 15-21, which relate to a computer program, can be accepted, because they are based on the new methods of claims 1-7.

CLAIMS (as amended on 22 November 2004)

1. A method for displaying a cursor on a display of an electronic device, wherein only part of a virtual view is displayed at a time on the display of the device, wherein the method comprises the steps of:
- 5 changing the displayed part of the virtual view on the display in response to user actions;
 displaying a cursor on the display,
 c h a r a c t e r i z e d in that the method further comprises the step of:
- 10 determining a relation between the cursor location on the display and the location of the displayed part of the virtual view within the whole virtual view so that the cursor location on the display reflects the location of the displayed part of the virtual view in proportion to the whole virtual view.
- 15 2. The method according to claim 1, c h a r a c t e r i z e d in that the cursor is moved to the same direction as the virtual view is scrolled.
3. The method according to claim 1, c h a r a c t e r i z e d in that the relation is linear or non-linear.
4. The method according to claim 1, c h a r a c t e r i z e d in that the method further comprises the steps of:
- 20 moving the cursor to a desired location; and
 displaying the corresponding part of the virtual view on the display.
5. The method according to claim 1, c h a r a c t e r i z e d in that changing the orientation of the electronic device changes the view on the display.
- 25 6. The method according to claim 1, c h a r a c t e r i z e d in that the cursor, the displayed part of the virtual view and/or the virtual view have the same origin.
7. The method according to claim 1, c h a r a c t e r i z e d in that the deviation of the cursor from the centre of the displayed part of the virtual view is proportional to the deviation of the displayed part from the origin of
- 30 the virtual view.
8. An electronic device for displaying a cursor on a display of the electronic device, the electronic device comprising at least:
 a processor (10);

a memory (20) coupled to the processor (10), the memory (20) comprising a virtual view suitable for conveying information to the user of the electronic device;

a display (40) coupled to the processor (10);

5 view control means (50) with which the view on the display (10) is changed;

a cursor (60) on the display (10),

c h a r a c t e r i z e d in that the electronic device further comprises:

10 a relation between the cursor (60) location on the display (40) and the location of the displayed part of the virtual view within the whole virtual view so that the cursor (60) location on the display reflects the location of the displayed part of the virtual view in proportion to the whole virtual view.

9. The electronic device according to claim 8, c h a r a c t e r -
15 i z e d in that view control means (50) refer to motion control means, scroll bar(s) or a mouse.

10. The electronic device according to claim 8, c h a r a c -
t e r i z e d in that the electronic device comprises:

20 means for moving (70) the cursor (60) to a desired location and in response to the movement, displaying the corresponding part of the virtual view on the display (40).

11. The electronic device according to claim 8, c h a r a c -
t e r i z e d in that the electronic device is a mobile phone.

12. The electronic device according to claim 8, c h a r a c -
25 t e r i z e d in that the electronic device is a Personal Digital Assistant (PDA), remote control, gaming console, web tablet, wireless device, mobile camera or internet appliance.

13. The electronic device according to claim 8, c h a r a c -
30 t e r i z e d in that the cursor, the displayed part of the virtual view and/or the virtual view are arranged to have the same origin.

14. The electronic device according to claim 8, c h a r -
a c t e r i z e d in that the deviation of the cursor from the centre of the displayed part of the virtual view is arranged to be proportional to the deviation of the displayed part from the origin of the virtual view.

35 15. A computer program embodied on a computer-readable medium, wherein the computer program executes the program steps recorded

in a computer-readable medium to perform a method for displaying a cursor on a display of an electronic device, wherein only part of a virtual view is displayed at a time on the display of the electronic device, wherein the method comprises the steps of:

5 changing the displayed part of the virtual view on the display in response to user actions;

displaying a cursor on the display;

characterized in that the method further comprises the step of:

10 determining a relation between the cursor location on the display and the location of the displayed part of the virtual view within the whole virtual view so that the cursor location on the display reflects the location of the displayed part of the virtual view in proportion to the whole virtual view.

15 16. The computer program according to claim 15, characterized in that the cursor is moved to the same direction as the virtual view is scrolled.

17. The computer program according to claim 15, characterized in that the relation is linear or non-linear.

20 18. The computer program according to claim 15, characterized in that the method further comprises the steps of:

moving the cursor to a desired location; and

displaying the corresponding part of the virtual view on the display.

25 19. The computer program according to claim 15, characterized in that changing the orientation of the electronic device changes the view on the display.

20. The computer program according to claim 15, characterized in that the cursor, the displayed part of the virtual view and/or the virtual view are arranged to have the same origin.

30 21. The computer program according to claim 15, characterized in that the deviation of the cursor from the centre of the displayed part of the virtual view is arranged to be proportional to the deviation of the displayed part from the origin of the virtual view.